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DPD-5591-59  
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Dear Dan:

Attached are two (2) copies of Progress Report  
No. 6 covering our In-Plant Field Engineering  
Activities for Requirements 1 and 3 for the  
period 1 April through 31 May 1959.

Sincerely

*Jack*  
Jack

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Enclosures -

CMCC Doc. No. 163x5.102 (copies 1 and 2)

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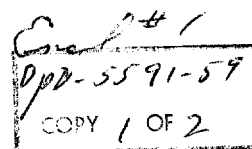
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PROGRESS REPORT NO. 6

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TIME AND MATERIALS CONTRACT  
FOR FIELD ENGINEERING SERVICES

1 April through 31 May 1959

CMCC Document No. 163X5.102  
Copy / of 5 Copies

30 June 1959

(This document contains a total of 9 sheets,  
including this title page.)

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## 1. GENERAL SUMMARY.

This report describes the in-plant field-engineering activities for Requirements 1 and 3, and covers the period from 1 April through 31 May 1959. Funding for these activities is provided under a Time and Materials Contract covering the period 1 January through 30 June 1959.

The activities covered by this report are divided into five general categories: supervision, training, field modifications, general field support, and repair and retrofit. Section 7 of the report is a cost summary showing funds expended under the Time and Materials Contract through 31 May 1959.

Supervisory activities during the report period included management of final phases of Contract A-101, planning and liaison with Edwards AFB, liaison trips to Laughlin AFB and SAC Headquarters, and preparation of a proposal for field engineering services under Requirements 1 and 3 for the fiscal year 1960.

In-plant field support activities during the report period included publication of 9 Field Service Bulletins and 8 Technical Information Bulletins, submission of a Change Proposal No. 4 to Customer C, replies to 7 Unsatisfactory Reports submitted to Customer C, completion of environmental tests on System 4, Serial 102, and repair of a substantial number of major components and subassemblies under the in-plant Repair and Retrofit program.

## 2. SUPERVISORY ACTIVITIES.

### a. General and Administrative

As indicated in previous reports, management of all activity during final phases of Contract A-101 is being handled by the contractor Field Engineering organization. Present indications are that all work under this contract will be completed by September 1959. As indicated in the previous report, it is probable that a surplus of contractual funds will be refunded to all Customers.

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Planning and liaison with Edwards AFB in connection with the vehicle noise study program and the scheduled flight tests of System 4, Serial 102, were continued during the report period.

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During the period 4 May through 8 May, [REDACTED] visited the 4080th Squadron at Laughlin AFB to establish requirements for a Sferics maintenance depot at Del Rio and to determine Qualified Personnel Requirements for a QPRI. Contractor technical representatives have been performing depot level maintenance at Laughlin AFB since activation of the 4080th. As a result of this trip, official recognition of the depot maintenance capability has been received from SAC.

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On 27 May, [REDACTED] visited SAC Headquarters to discuss System 4 data reduction problems and the possible integration of the system into other weapon systems. A proposal to SAC is presently in preparation covering redesign of System 4 to permit semi-automatic data reduction, direction-finding, and navigation-system tie-in.

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[REDACTED] a member of the Field Engineering Technical Staff, left the plant on 27 May on a liaison trip to Detachment B.

A proposal covering resident field engineering and in-plant logistic support services for Customers A and C during fiscal 1960 was prepared during the report period and will be submitted during the month of June.

#### b. Personnel

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A senior planner and two electronic technicians were added to the in-plant field engineering staff during the report interval. [REDACTED] [REDACTED] formerly supervisor of contractor personnel at Laughlin AFB, was also assigned to in-plant support activities.

### 3. TRAINING

There were no changes in the in-plant training program during the report period. Activity in the preparation of training aids for the Data-Reduction

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System was accelerated during May. The completed package is expected to be available in late July or early August.

#### 4. FIELD MODIFICATIONS

##### a. Service Bulletins

The following is a list of Field Service Bulletins completed during the months of April and May.

<u>FSB No.</u>	<u>System</u>	<u>Unit</u>	<u>Description</u>
1-10	1	Base Assembly and Power Supply MP-10864	C5 and C6 Unit Power Supply noise filter and shield (Customer C)
1-11	1	Information Recorder MP-10737 or MP-12570	Noise suppression modification for Information Recorder
3-5	3	Ground-Based Test Fixture MP-11007	Modification of test set for improved performance
3-6	3	System Cabling	Addition of R-F noise filter to primary power circuit
3-7	3	Information Recorder MP-10737	Noise suppression modification for Information Recorder
3-8	3	R-F Assemblies MP-10958, MP-11008 and MP-10961	Modification of R-F Assemblies
4-16	4	Indicator MP-11061, and Camera MP-11452	800-foot film magazine for System 4-Ser. No. 104
4-17	4	Tape Transport MP-10992	Improved capstan drive belt for Tape Transport
6-5	6	Recorder MP-12570	Noise suppression modification for Information Recorder
G-2	Data Reduc- tion	14-Channel Playback Equipment ("G1" Rack) MP-12513	Redesign of relay power supply

##### b. Change Proposals

The three Change Proposals described in Progress Report No. 5 have been approved by Customer C. Change Proposal No. 4, covering modification of the Information Recorder to permit recording of

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the 1-kc timing signal on the center tape track, was submitted to all customers on 3 June 1959.

## 5. GENERAL FIELD SUPPORT.

### a. Technical Services

Activities in this area include the engineering work involved in answering queries and solving special problems encountered in the field; procurement and shipment of special parts not available through normal channels; and processing and analysis of fault reports. These activities are handled on a day-to-day basis and a detailed description is beyond the scope of this report.

Publication of informal Technical Information Bulletins, containing service and troubleshooting hints and similar data, is continuing. Eight bulletins were issued during the period covered by this report.

### b. Special Projects

Redesign of encapsulated subassemblies for System 3 is continuing. Field engineering services to Edwards AFB in connection with vehicle noise studies and flight testing of System 4, Serial 102, are scheduled to begin during June.

### c. Unsatisfactory Reports

The following URs from Customer C were answered during the report period.

<u>UR No.</u>	<u>Description</u>
58-568	Mechanical failures of Information Recorder reel-drive gear assemblies
25X1D 58-228	[REDACTED]
59-17	Overheating of filament resistors in Information Recorder
58-263	Modification of Grid Dip Meter
58-574	Loss of amplitude of 1-kc timing signal

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<u>UR No.</u>	<u>Description</u>
58-899	Improper operation of bias and erase oscillator in Information Recorder
58-898	Improper operation of 1-kc oscillator in Information Recorder

d. System 4 Environmental and Flight Tests (Customer C)

Repair and rework of System 4, Serial 107, was completed and the system was shipped to Customer C depot on 7 April. Environmental testing of Serial 102 was completed during the period 13 April to 24 April and the system was shipped to Edwards AFB for flight testing on 15 May.

6. REPAIR AND RETROFIT PROGRAM

During the months of April and May the following items were received from Customer A for repair:

<u>Quantity</u>	<u>MP No.</u>	<u>Item</u>
3	10015	Ring Gear and Reel Assembly
1	12435	Transco Switch, Modified
2	10859	Drive Motor
5	10926	Motor
2	10168	Takeup Motor
5	10174	Capstan Motor
1	12155	Test Cable
1	12410	Encapsulated Unit
3	10737	Recorder
1	45067	Tube
1	11022	"J" Rack
1	11085	"G" Rack
1	NL	Data Box

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During the same period, the following items were received from Customer C:

<u>Quantity</u>	<u>MP No.</u>	<u>Item</u>	
1	10933	"F" Rack	
1	11089	Voltmeter	
3	10922		25X1D
2	10174	Capstan Motor	
3	10859	Drive Motor	
4	10737	Recorder	
2	10929	Cable-System 3	
2	10806	Cable-System 3	
2	10171	Cable-W1501	
1	10196	Cable-W1502	
2	11048	Receiver-System 3	
1	11036	Etched Board Assembly	
1	10702	Voltmeter	
1	10984	Etched Board Assembly	
1	10184	Supply Motor	
1	11519	Magnetic Amplifier Assembly	
3	12514	Motor and Filter Assembly	
1	10926	Motor	
1	11450	Blower	
2	11415	Digitometer	
1	10087	Head Cover Assembly	
1	10218	Oscilloscope	
1	10217	Power Supply	

#### 7. COST SUMMARY.

A summary of costs incurred for Field Engineering Services during the period 1 February through 31 May 1959 is tabulated on the following page.

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